

# T-LINE

## T201 Series

CURRENT TRANSFORMERS

ISOLATED, CONTACT-LESS LOOP POWERED DIRECT CURRENT TRANSDUCER RANGE



**MEASUREMENT TYPE:**

pass-through current continuous component

**INPUT:**

Selectable range through dip-switches from 5A to 40 / 100 A, single or double polarity

**MEASUREMENT PRINCIPLE:**

Hall effect or Magnetic Principle (patented technology)





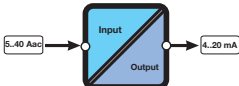
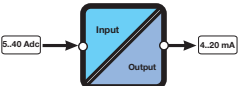
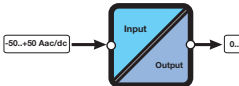
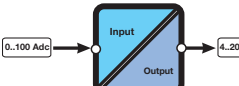
**OUTPUT:**

milliAmps or Voltage

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# T-LINE AC/DC CURRENT TRANSFORMER TO MA (V) – LOOP POWERED

**SOON AVAILABLE**  
**T201DCH100-300**  
 C/DC TRMS Current Converter  
 100 / 300 A f.s.

| T201  | T201DC  | T201DC-H   | T201DC-100  |
|---|---|--|---|
|  |  |  |  |
| <b>AC Current Transformer to DC Current</b><br>(4..20 mA – loop powered)          | <b>DC Current Transducer to DC current</b><br>(4..20 mA - loop powered)           | <b>AC/DC Current Transducer to DC voltage, Hall effect</b>                         | <b>DC Current (100A) Transducer to DC current</b><br>(4..20 mA - loop powered)      |
|  |  |  |  |

## TECHNICAL SPECIFICATIONS

| General Data          |   |   |  |  |
|-----------------------|---|---|--|--|
| Power supply          | 5..28 Vdc (loop powered)  | 5..28 Vdc (loop powered)  | 11.28 Vdc  | -  |
| Power consumption     | -   | -   | 21 mA  | -  |
| Isolation             | Yes   | Yes   | -  | 1,5 kVdc   |
| Power transducers     | -   | -   | -  | -  |
| Accuracy              | 0,1%  | 0,1%  | 0,5% f.s.  | 0,2%   |
| Thermal drift         |   |   | < 200 ppm/°C   | < 150 ppm/K  |
| Response time         | < 100ms   | < 100ms   | 800 ms   | 100 ms (no filter)..600 ms (with filter)   |
| Settings              | Dip-switches  | Dip-switches  | Dip-switches   | Dip-switches   |
| Mounting              | 35 mm DIN rail guide  | 35 mm DIN rail guide  | 35 mm DIN rail guide   | 35 mm DIN rail guide   |
| Protection Degree     | IP20  | IP20  | IP20   | IP20   |
| Operating Temperature | -20..+65°C  | -20..+65°C  | -20..+65°C   | -10..+65°C   |
| Connectors            | -   | -   | -  | Faston 6,3 x 0,8 m (for 4..20 mA loop) -Through hole 17,8 mm (for current cable)   |
| Dimension (W x H x D) | 38 x 40 x 20 mm   | 38 x 40 x 20 mm   | 38 x 40 x 20 mm  | 50 x 52 x 39,8 mm  |
| Enclosure             | -   | -   | -  | PBT, black   |
| Input                 |   |   |  |  |
| Channel Numbers       | 1   | 1   | 1  | 1  |
| Type                  | CURRENT range (A)<br>5, 10, 15, 20, 25, 30, 35, 40 A<br>Max overcurrent : 800 A<br>Frequency: 20..1.000 Hz<br>Crest factor: 2 | Current range (A)<br>5, 10, 15, 20, 25, 30, 35, 40 A<br>Max overcurrent : 800 A<br>Frequency: 20..1.000 Hz<br>Crest factor: 2 | Current range: -50..+50 A (bipolar)<br>Measuring type: TRMS<br>Max overcurrent: 2.000 A (pulse)<br>Bandwidth: 1 kHz<br>Crest factor: 2 | Current range: 0..10 A, 0..25 A, 0..50 A, 0..100 A (monopolar);<br>-10..0..+10 A, -25..0..+25 A, -10..0..+50 A, -25..0..+100 A (bipolar) |
| Output                |   |   |  |  |
| Channel Numbers       | 1   | 1   | 1  | 1  |
| Type                  | CURRENT (mA)<br>4..20 mA (2 wires)  | Current (mA)<br>4..20 mA (2 wires)  | Voltage range: 0..10 Vdc<br>Resolution: 12 bit   | Current (mA)<br>4..20 mA (2 wires)   |
| Standard              |   |   |  |  |
| Approval              | CE  | CE, European Patent   | CE   | CE   |
| Norms                 | EN60688/1997 +A1 +A2.<br>Standards :<br>EN61000-6-4/2002-10<br>EN61000-6-2/2006-10<br>EN61010-1/2001                          | EN60688/1997 +A1 +A2<br>EN61000-6-4/2002-10<br>EN61000-6-2/2006-10<br>EN61010-1/2001  | EN60688/1997 +A1 +A2<br>EN61000-6-4/2002-10<br>EN61000-6-2/2006-10<br>EN61010-1/2001   | EN60688/1997 +A1 +A2<br>EN61000-6-4/2002-10<br>EN61000-6-2/2006-10<br>EN61010-1/2001   |

## ORDER CODES

| Code     | Description  |
|----------|--|
| T201     | AC Current Transformer to DC Current (4..20 mA – loop powered) |
| T201DC   | DC Current Transducer to DC current (4..20 mA - loop powered)  |
| T201DC-H | AC/DC Current Transducer to DC voltage, Hall effect            |

| Code      | Description  |
|-----------|--|
| T201DC100 | DC Current (100A) Transducer to DC current (4..20 mA - loop powered) |
| PM002780  | DIN rail fastening base  |
| BC-Ct     | Battery connector for current transformer                            |



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